

Notice of Allowability	Application No.	Applicant(s)	
	10/611,289	MATSUSHIMA ET AL.	
	Examiner	Art Unit	
	Tina M. Wong	2874	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment received 19 September 2005.
2. ☒ The allowed claim(s) is/are 1-8, 14, 15 and 17-23.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|--|

DETAILED ACTION

Applicant's response filed on 19 September 2005 has been fully considered. Claims 1-8 have been previously allowed; claims 14, 15 and 17 are allowed due to the amendments made to the claims and newly presented claims 18-23 are currently allowed.

Examiner's Statement Of Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

In regards to claims 1-8, claims 1-8 have been allowed in the previous Office action, mailed 15 March 2005, paper number 032005.

In regards to claims 14, 15 and 17, claims 14, 15, and 17 are allowed. Previously objected claims 14, 15 and 17 have been amended to depend only from the allowed independent claims 1 and 3.

In regards to claims 18-23, the prior art fails to disclose or reasonably suggest an optical module with a high transmission frequency line and an optical element mounted on a carrier, where the first high frequency transmission line is made up of a coplanar strip waveguide configured by a first signal line and a first ground wiring conductor extended along one side of the first signal line, a dielectric substrate on which a second high frequency transmission line supplying a high frequency electric signal to the first high frequency transmission line of the carrier is formed, the second high frequency transition line is made up of a coplanar strip waveguide configured by a second signal line, a second ground wiring conductor extended along at one side of the second signal line, and a third ground wiring conductor extended along at another side of the second signal line, where an electrical connection between the first signal line and the second signal line and another electrical connection between the first ground wiring

Art Unit: 2874

conductor and the second ground wiring conductor are made by use of conductor wires at an output side of the second high frequency transmission line and the second high frequency transmission line has a transmission mode conversion structure at the output side which is configured by increasing a distance between the second signal line and the third ground wire conductor toward an end of the second signal line at the output side.

The closest prior art of record is the prior art applied in the rejection in the previous Office action, mailed 15 March 2005, paper number 032005 to U.S. Patent 6,823,145 to Shirai et al. However, Shirai et al fails to disclose the high frequency transmission lines to be coplanar waveguides and for the multiple transmission lines to be arranged and configured in the manner as claimed by Applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tina M. Wong whose telephone number is (571) 272-2352. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2874

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas J. Jones
TMW

Michelle R. Connelly-Cushwa
MICHELLE CONNELLY-CUSHWA
PRIMARY EXAMINER
10/25/05